**zero-balanced Array**

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C#

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An array is called zero-balanced if its elements sum to 0 and for each positive element n, there exists another element that is the negative of n. Write a function named ìsZeroBalanced that returns true if its argument is zero-balanced array, else return false. Note that an empty array will not sum to zero.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

public static bool IsZeroBalanced(List<int> xs)

{

if (xs == null || xs.Count ==0) return false;

//throw new NotImplementedException();

Dictionary<int, int> diccio = new Dictionary<int, int>();

foreach (int elem in xs)

{

if (diccio.ContainsKey(elem))

{

diccio[elem]++;

}

else

{

diccio[elem] = 1;

}

}

foreach (KeyValuePair<int, int> kvp in diccio)

{

if (!diccio.ContainsKey(-kvp.Key))

{

return false;

}

if (kvp.Value != diccio[-kvp.Key])

{

return false;

}

}

return true;

}

static void Main(string[] args)

{

//int[] arr = { 3, -3, 2, -2,1 ,1,-1,-1};

//int[] arr = { 3,0,0,0,-3 };

// int[] arr = { 0,0,0,0,0 };

//int[] arr = { -2, 2, -3 ,-3};

int[] arr = { -3 };

Console.WriteLine(IsZeroBalanced(arr.ToList()));

Console.ReadLine();

}

}

}